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TO DEMONSTRATE SPIROCHAETA PALLIDA

Lenartowics' Method:

1. Expose perfectly clean slide 5 seconds to the vapor of $\frac{1}{2}$ -2% osmic acid.
2. Cover this slide with a smear of the suspected material.
3. Fix at once in osmic vapor for not more than ten to twenty seconds.
4. When dry stain $\frac{1}{4}$ to 1 min. in Ziehl-Neelson carbol-fuchsin tubercle stain.
5. Wash in water, dry, and examine with oil-immersion.

The ground is stained red and *Spirochaeta pallida* appears unstained.

THE STUDY OF ROTIFERS

Hirschfelder (Zeitschr. Wiss. Zool. 1910, p. 211,) gives the following suggestion to students of Rotifers:

Living:

Place the animal in a drop of 1:50000 neutral red solution; support cover-glass with wax-feet; press the cover sufficiently to hold without damaging the rotifer.

Dead:

1. Narcotize until completely extended by placing animals in 1.5 c. c. of water and adding 2 or 3 drops of Rousselet's cocaine mixture (2% cocaine hydrochloride 3 parts; 90% alcohol 1 part; water 6 parts). Let this act about one quarter hour, without agitating the material.
2. Apply a drop of 1% osmic acid. Let this act about ten minutes.
3. Transfer to distilled water for five minutes.
4. Transfer to 2% formalin.

A PAPER RIBBON-CARRIER.

A simpler and much more convenient ribbon-carrier than those furnished with rotary microtomes has proven very useful in this laboratory. Instead of an endless band for carrying the paraffin ribbon, a roll of narrow cash-register paper is used. When a ribbon